Estimating Weekly Rubbish Collection

Using Bin Volume, Capacity, and Average Fill Data

Average Fill Level

Estimated fill levels:
40%, 60%, 110%, 30%, 99%

Average fill = (40 + 60 + 110 + 30 + 99) ÷ 5 = 67.8%

Volume of a Wheelie Bin

Length: 0.5m (50cm)
Width: 0.5m (50cm)
Height: 1m (100cm)

Volume = L × W × H
= 50 × 50 × 100 = 250,000 cm^3

Capacity of the Wheelie Bin

$1\ cm^3 = 1\ mL$
$1000\ mL = 1\ L$

$250{,}000\ cm^3 = 250{,}000\ mL$
$= 250\ L$

67.8% of $0.25\ m^3 = 0.1695\ m^3 = 169{,}500\ cm^3$